INTERNATIONAL SEARCH REPORT

total Application No PCT/JP 03/16278

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C01G23/00	
According to International Patent Classification (IPC) or to both national classific	cation and IPC
B. FIELDS SEARCHED	
Minimum documentation searched (classification system followed by classificat	lion symbols)
IPC 7 COIB COIG	
Documentation searched other than minimum documentation to the extent that	such documents are included in the fields searched
Electronic data base consulted during the International search (name of data base	ase and, where practical, search terms used)
PAJ, EPO-Internal, WPI Data	•
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C. DOCUMENTS CONSIDERED TO BE RELEVANT	
Category Citation of document, with indication, where appropriate, of the re	elevant passages Relevant to dalm No.
A DATABASE WPI	1-21
Section Ch, Week 199602	
Derwent Publications Ltd., Londo Class E32, AN 1996-016919	n, GB;
XP002277918	
& JP 07 291607 A (MURATA MFG CO	LTD),
7 November 1995 (1995-11-07)	
abstract	
A US 6 205 015 B1 (HIRAMATSU TAKAS	HI ET AL) 1-21
20 March 2001 (2001-03-20)	
the whole document	
A P 1 148 030 A (SHOWA DENKO KK)	1-21
24 October 2001 (2001-10-24)	
the whole document	
<u> </u>	
Further documents are listed in the continuation of box C:	X Patent family members are listed in annex.
Special categories of clied documents:	T later document nublished after the International filling date
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Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Arnotte, E
m PCT/ISA/210 (second sheet) (January 2004)	

INTERNATIONAL SEARCH REPORT

information on patent family members

In thonal Application No PCT/JP 03/16278

Patent document cited in search report		Patent family member(s)		١	Publication date
A	07-11-1995	NONE		8	
B1	20-03-2001	JP			31-03-2003
					08-10-1999 22-07 - 1999
		NL	1011085	C2	21-07-1999
			419080		21-01-2001
Α	24-10-2001	EP			24-10-2001
	•	US			22-06-2000 17 -1 0-2002
	B1	B1 20-03-2001	A 07-11-1995 NONE B1 20-03-2001 JP	A 07-11-1995 NONE B1 20-03-2001 JP 3391269	A 07-11-1995 NONE B1 20-03-2001 JP 3391269 B2

Form PCT/ISA/210 (petent family ennex) (January 2004)